

JOHN DEERE

MODEL "B"

DISK HARROW

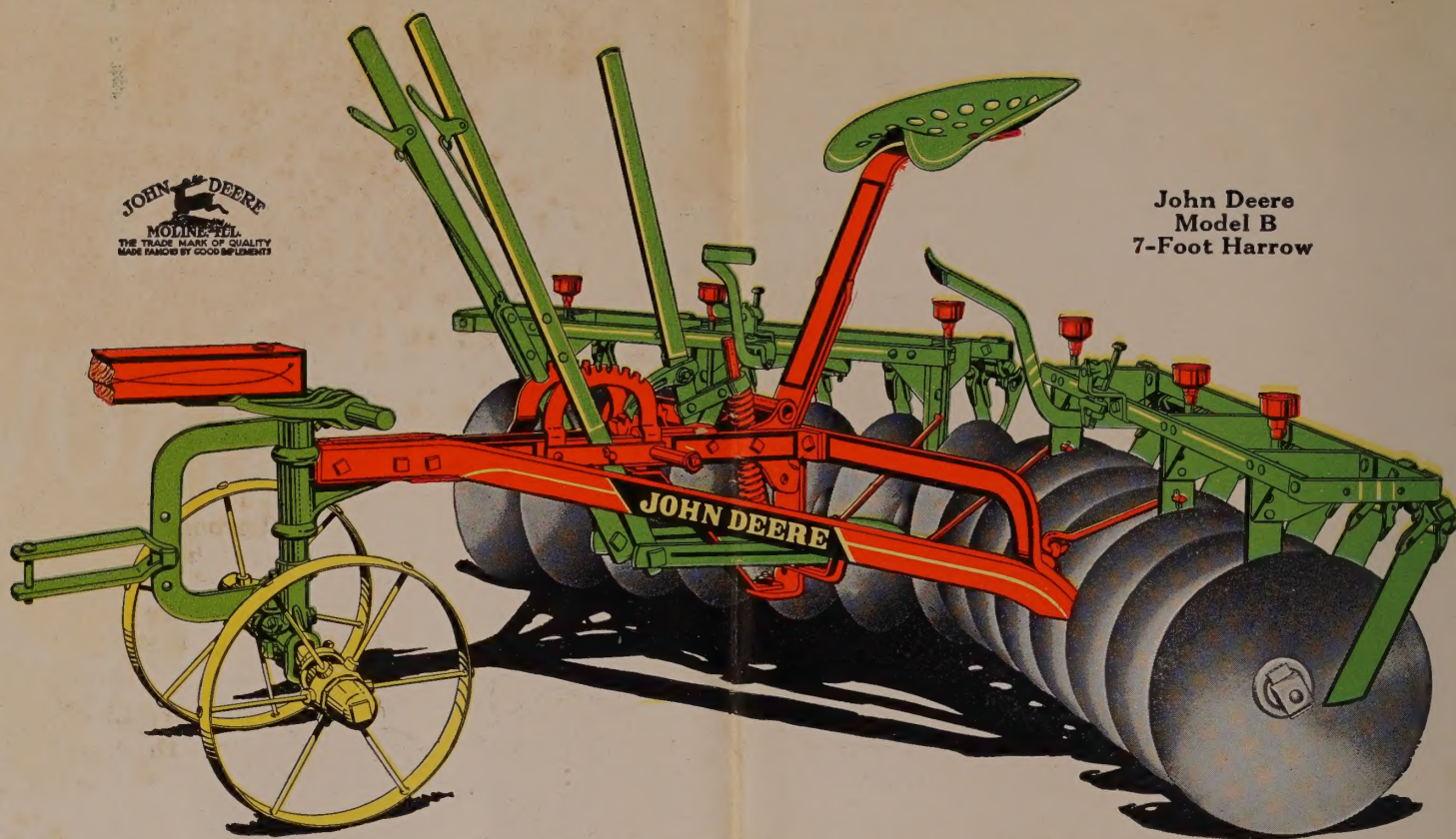


The
**Flexible Spring-Pressure
Horse-Drawn Harrow**

**When you buy John Deere Implements
you are sure of prompt repair service
during their long life.**

JOHN DEERE
 MOBILE-ILL.
 THE TRADE MARK OF QUALITY
 MADE HARMON BY GOOD MEASUREMENTS

John Deere
 Model B
 7-Foot Harrow



JOHN DEERE *MODEL B* DISK HARROW

The John Deere Model B Disk Harrow is the most efficient and serviceable harrow of its type.

That, briefly, is the mass opinion of thousands of farmers whose fields and crops have been benefited through the superior work of the Model B during the last thirty-five years.

Improvements made in the Model B from time to time, to meet the changing conditions, have kept this harrow the leader in its field.

Now, it has tractor-harrow strength; it can be used successfully with any standard tractor.

The manufacturers could find no way in which to improve the general design of the Model B, so they built additional weight and strength into it; using an even higher quality steel in the wearing parts, angle steel braces instead of flat iron bars for the main frame and heat-treated steel disk blades, and in other ways adding to its value to the buyer.

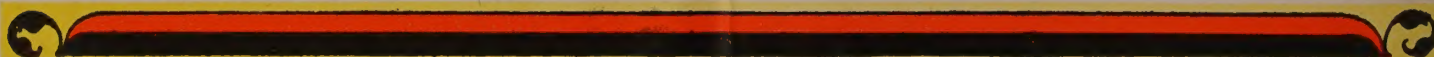
The sum total of these changes is a much stronger and heavier harrow than before, a harrow that does better work and lasts longer.

Heat-Treated Steel Disks Are Tough

The special long-wearing heat-treated steel used in John Deere disk blades is the most satisfactory material so far discovered for the purpose. The steel is carefully heat-treated after the disks are formed to give a close-grained blade that is hard and tough. This type of disk outlasts the ordinary blade and holds its edge for a longer time—a distinct advantage when working in hard or stony land.

Flexibility Is the Big Feature

The main reason for the Model B's outstanding success is its extreme flexibility—the capacity to penetrate, pulverize and pack the soil its entire width



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in any condition where a disk harrow can be used to advantage.

If every field were as smooth as a board floor, flexibility would be of no advantage in a disk harrow. But the truth is, there is no field condition in which a flexible disk harrow will not do better work than a rigid one. A disk harrow must be flexible to penetrate evenly its entire width.

Independent action of the gangs is largely responsible for the flexibility of the Model B. This type of construction is of great value because it allows one part of the harrow to pass over an obstruction in the field without interfering with work of the rest of the machine. A rigid harrow, under the same conditions, is likely to leave some of the land uncultivated.

Spring Pressure and Third Lever Have Many Advantages

The control of the Model B, so that it will penetrate evenly its entire width in any field condition, is made extremely simple and positive by the spring-pressure third-lever feature.

The Model B has a pivoted yoke through which the drawbars pass. This yoke is controlled in its up-and-down movements by a third lever and powerful pressure spring. When this third lever is pulled back the gangs are forced down in the center by spring pressure to work in depressions and dead furrows, or to give extra pressure in hard ground.

Moving the lever forward causes the gangs to rise in the center and cultivate over ridges and back furrows without forcing the inside disks down too deeply; this also gives the gangs light pressure in

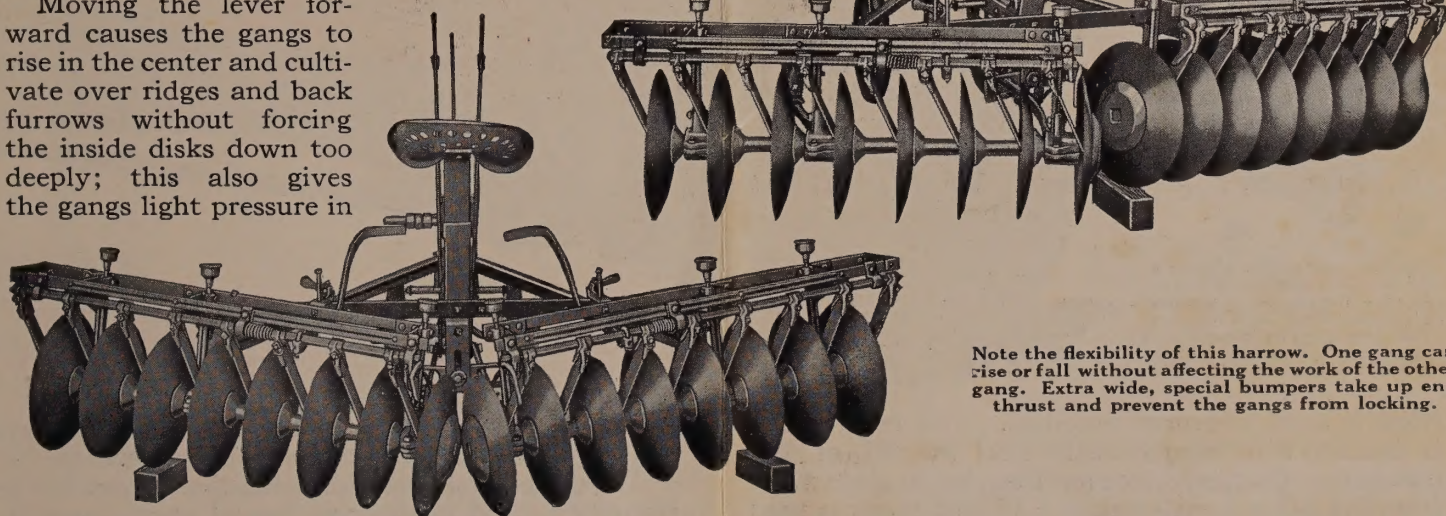
soft ground. The pressure spring holds the gangs to their work at all times, and, by means of the third lever, the operator can instantly change the tension of the spring so the harrow will penetrate evenly and do uniformly good work, regardless of the unevenness of the land.

Separate angling levers enable the operator to give the gangs the proper angle with relation to each other when working on hillsides, so the harrow does not crowd in any direction.

When overlapping, with one gang running in hard ground and the other gang in soft ground, the single-lever harrow tends to crowd towards the soft ground, due to the greater resistance offered by the hard ground. This fault is readily overcome with the Model B by giving the gang working in soft ground slightly more angle.

Strength Is Conspicuous in Every Line

Strength is conspicuous in every line of the Model B.



Note the flexibility of this harrow. One gang can rise or fall without affecting the work of the other gang. Extra wide, special bumpers take up end thrust and prevent the gangs from locking.

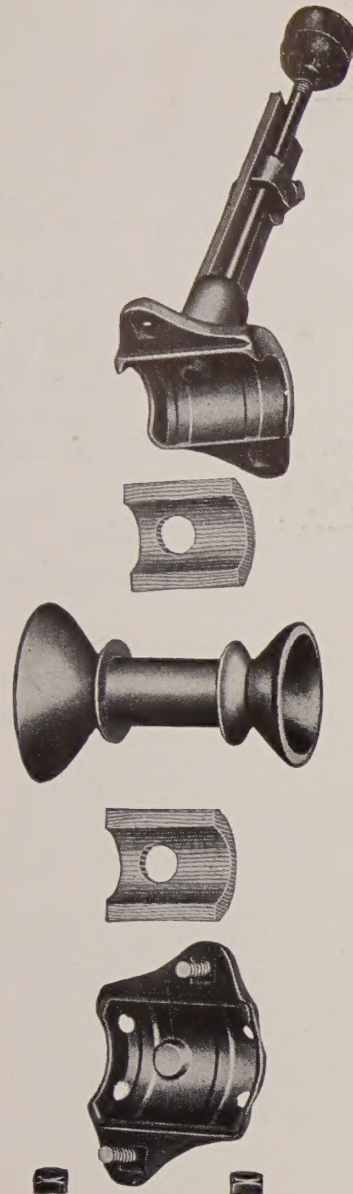
Notice how gangs can be forced down in the center, by means of the third lever.



JOHN DEERE MODEL B - THE FLEXIBLE DISK HARROW

Major Points of Merit

- ① Pivoted yoke and powerful spring pressure controlled by third lever, make the Model B flexible under all conditions.
- ② Great strength is obtained by using heavy angle steel braces, double-bar riveted gang frames, and high carbon steel in all wearing parts. The ten-foot size also has extra heavy gang bolts, bearings and spools.
- ③ Long-wearing heat-treated steel disk blades.
- ④ Adjustable oscillating scrapers can be locked in any position on disks, or locked off entirely when not needed.
- ⑤ Deep penetration full width of harrow is made possible because of correctly-designed hitch, spring pressure controlled by third lever, and sufficient weight properly distributed.

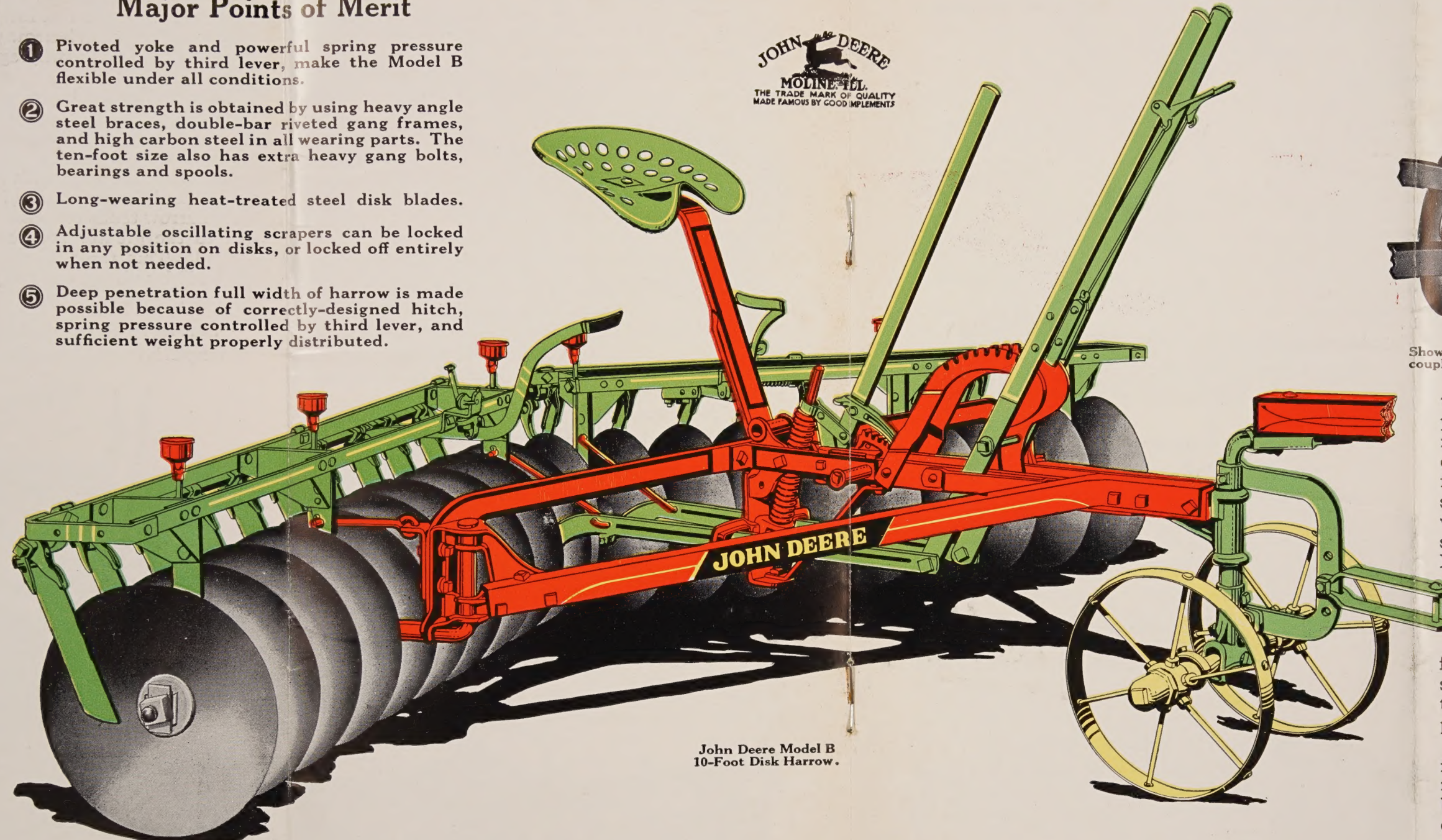


Bearing assembly, showing hard - oil cup and tube, hard - maple, oil - soaked bushings, spool and boxing. Note openings in lower bearing cap to allow dirt to work out of bearing.

Steel is used wherever practical. The main frame is braced with heavy angle steel instead of flat iron bars. On the 10-foot machine, the angle is made from 2 x 1- $\frac{1}{2}$ x $\frac{1}{4}$ -inch stock; 3/16-inch stock is used

on smaller sizes. The 10-foot size also has extra heavy gang bolts and extra large bearings.

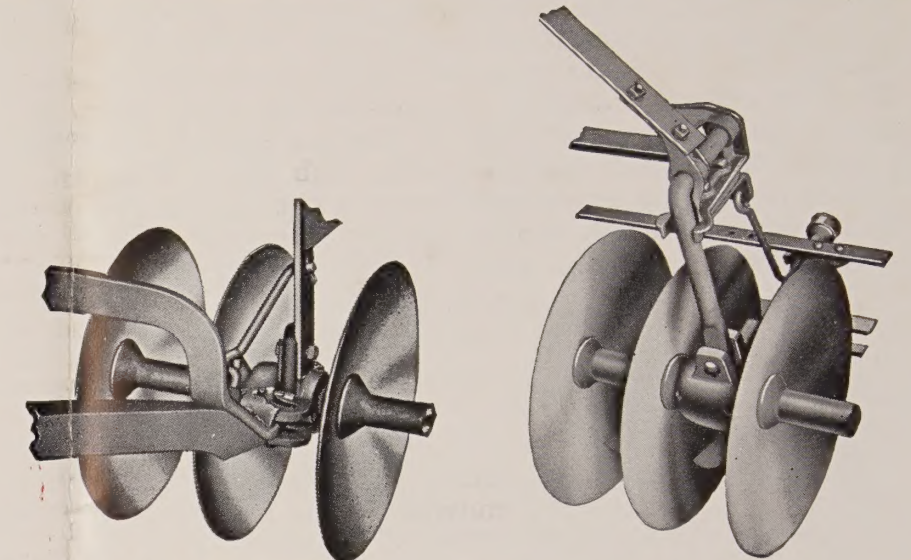
The gang frames are built with double bars and are securely riveted together with steel cross plates and



John Deere Model B
10-Foot Disk Harrow.

a steel end tie. The steel standards are riveted to the cross plates. This construction absolutely prevents sagging or twisting of the gang frames.

The new pivot gang connection, which is used on



Showing detail of slotted gang coupling used on smaller sizes.

New pivot connection between main frame and gangs on the larger sizes.

the 8-, 9- and 10-foot harrows serves two important purposes, besides adding greatly to the strength of the machine: It provides more clearance between the disk blades and the connecting unit, and, with the forked end casting on the main frame, it also allows side play of the gangs so that the large flat bumpers will take all of the end thrust. The possibility of springing or straining the main frame of the Model B is entirely eliminated by this construction.

The pivot connection on the larger sizes is made necessary because of the wider frame. On the 10-foot size, only 4 disks, instead of 5, are outside of the frame end on each gang, by reason of the wider frame. The larger frame adds weight and gives more strength and rigidity to the outer ends of the gangs, thereby eliminating vibration and assuring better penetration and good work.

On the smaller Model B harrows, provision is made for end thrust by the slotted gang coupling. The main frame connects to curved slots in the bearing box castings, thus allowing the gangs to move endwise so the bumpers can meet in the center and take up all end thrust.

Spring Guide Braces Seat Spring

The spring guide, which is made of heavy flat spring steel, extends upward to form a brace for the

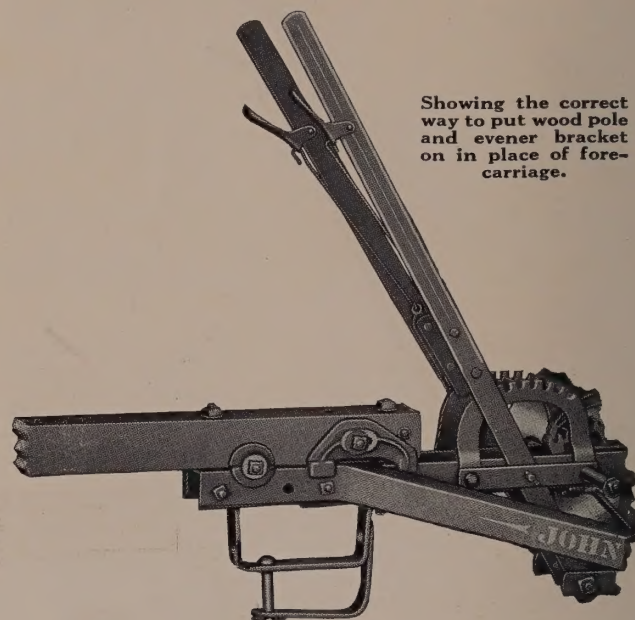
JOHN DEERE *MODEL B* DISK HARROW

seat spring, making a construction equivalent in strength to a double-leaf spring. This smooth-surfaced steel prevents wearing friction between the spring guide and the pivoted yoke drawbar guide. To give added strength, a brace extends from the spring guide diagonally up to the bottom of the pressure lever rack casting on the stub pole. This braces the spring guide and removes the possibility of its bending when striking an obstruction. The pivoted yoke drawbar guide is case-hardened.

On all Model B Disk Harrows, excepting the 4- and 5-foot sizes, drawbar links are used to connect the drawbars with the gang frame. These links steady and brace the gang frame and assure even action of the disk scrapers when they are being oscillated.

Good clearance is provided by the long steel standards which are attached endwise to the frame, and the set of the scrapers. The oil tubes fit snugly to the standards and carry the oil straight down into the bearing box and to the spool. The oil tubes are screwed into the bearing boxes, making an oil-tight

fit. The hard-oil cups extend above the frame, out of the dust and dirt, and in the most convenient position for filling.



Showing the correct way to put wood pole and evener bracket on in place of fore-carriage.

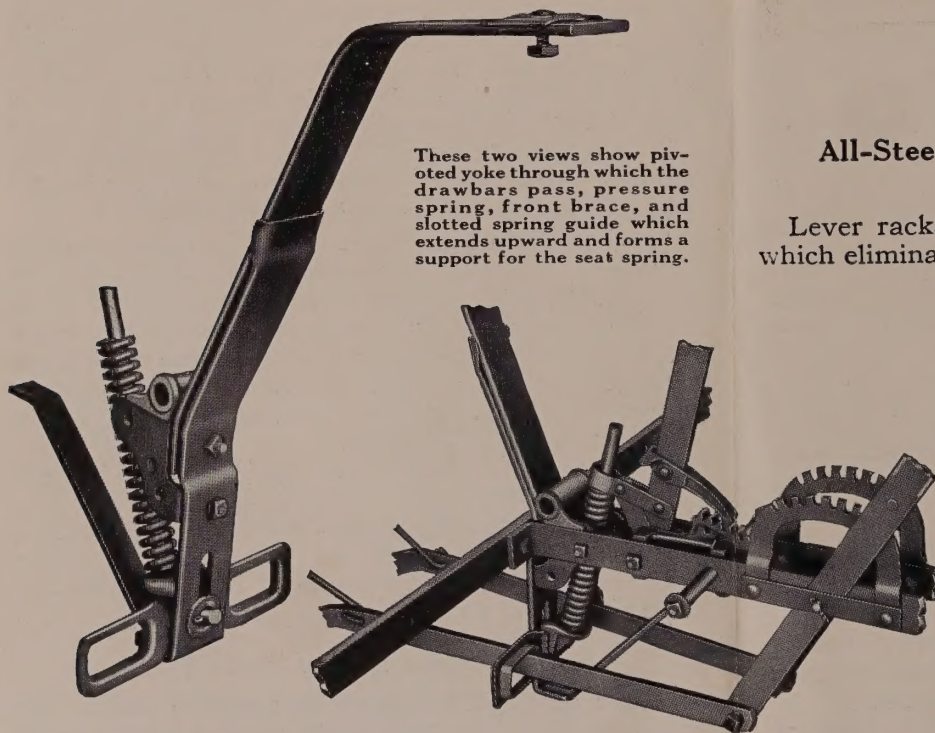
All-Steel Lever Racks—More Durable Than Castings

Lever racks on the Model B are made of steel, which eliminates the danger of breakage.

All Model B Harrows are built with stub tongue. This not only permits storing the harrow in limited space without knocking down the machine, but also provides for the use of set-over tongue with three horses. (See cut on page 8).

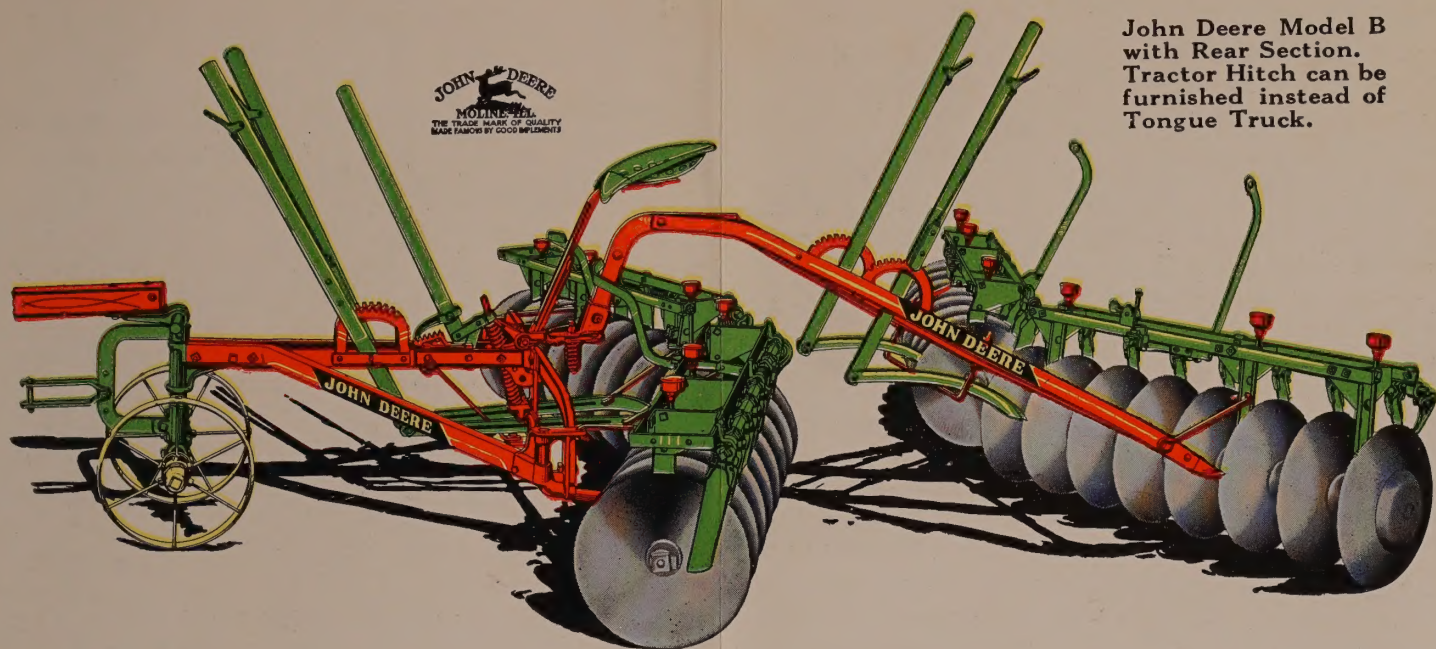
A new style of tractor hitch has been designed for the Model B. Strong and thoroughly practical, it can be used only on the later type of Model B Harrows.

Tractor hitch can also be furnished for older Model B Harrows.



These two views show pivoted yoke through which the drawbars pass, pressure spring, front brace, and slotted spring guide which extends upward and forms a support for the seat spring.

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John Deere Model B with Rear Section. Tractor Hitch can be furnished instead of Tongue Truck.

Tongue Truck and Forecarriage

Combination tongue truck and forecarriage can be furnished for any John Deere Model B Disk Harrow. It is of simple, strong and compact construction. The hitch is made to the vertical standard, and the truck, therefore, turns and is controlled in its movements by the direction of pull on the eveners. The clevis holds the evener bars horizontal, preventing the singletrees from striking the horses' legs when slackening or turning corners.

The axle is pivoted in the center, allowing either wheel to pass over an obstruction without strain on the horses' necks or on the harrow. The wheels have wide, oval tires, steel spokes and removable bearing boxes. The forecarriage can be furnished with or without tongue. The tongue can be set instantly for two-, three-, or four-horse hitch.

Hard-Maple, Dust-Proof Bearings

The Model B is equipped with improved hard-maple, oil-soaked bearings. They are as nearly dust-

proof as it is possible to make a disk-harrow bearing, and are durable.

Before the bearings are assembled, the wood bushings are saturated with hot linseed oil. Openings are provided in the lower bearing cap to permit dirt to work out of the bearing. (See cut on page 4).

The wood bushings, when worn, can be easily replaced with new ones at slight cost.

Oscillating Scrapers Keep the Disks Clean—Always

The scrapers are spring steel of the oscillating or swinging type, independently removable, adjustable and replaceable. They



Showing the type of oscillating scraper used on the Model B Disk Harrow.

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can be set at any position between the center and the edge of the disks, or locked off entirely.

Set-Over Irons

The tongue can be easily set over for use with three horses when tongue truck is not used. Holes are punched in the frames so the tongue can be set either on the right- or left-hand side. The set-over irons are of heavy steel and hold the tongue in correct alignment.

Double-Action Harrow

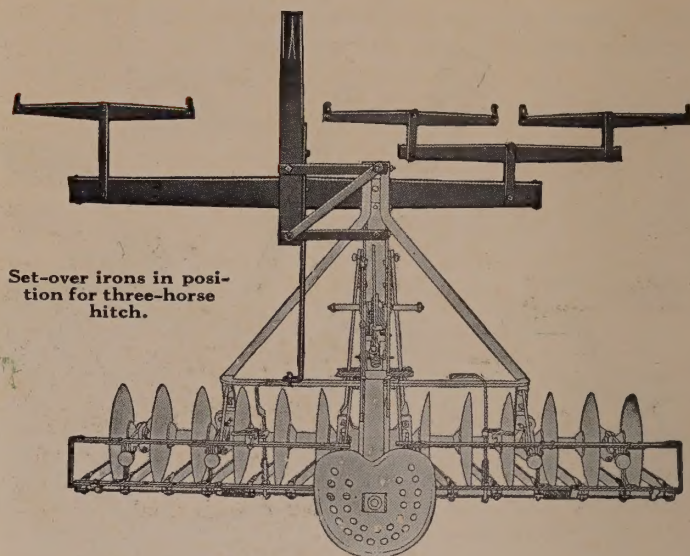
If you already have a John Deere Model B Disk Harrow, you can readily convert it into a double-action, horse-drawn or tractor-drawn harrow by using the rear section that we can furnish for this purpose.

When so equipped, this harrow works the soil twice every trip over the field. It does a better job of double-disking than ordinary harrows because the rear section is attached to the front by means of the John Deere Yielding Lock Coupling.

This coupling automatically locks on the straight-away, thus aiding the rear disks in doing their work

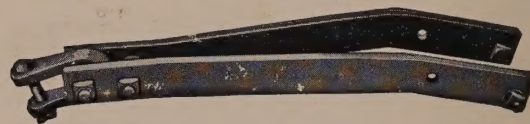


No. 5 Transport Trucks



Set-over irons in position for three-horse hitch.

properly—cutting out ridges left by the front disks, instead of trailing in their furrows. It also prevents



New, simple and durable tractor hitch for the Model B.

the rear section from swinging when one side of the harrow encounters more resistance than the other.

The lock yields when turning corners, preventing dragging of the harrow, eliminating strain on the machine, and making an easier pull for the horses.

The aligning device is another feature you will appreciate. It enables you to adjust the coupling so that rear gangs are always in correct alignment.

Transport Trucks

Transport trucks make the handling of John Deere Disk Harrows convenient under all conditions. They can be set in place quickly, and remove all danger of damage to disks. The wheels are of ample size, being 10 inches in diameter with $2\frac{3}{4}$ -inch tires.

JOHN DEERE QUALITY EQUIPMENT *for* Your Farming Operations

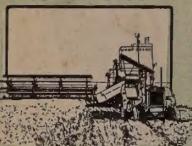


Tractors

Eleven sizes and styles, including standard-tread tractors in one-, two-, three-, and four-plow sizes; adjustable tread, general purpose tractors in two-, and four-row sizes; grove and orchard tractors in one-, and two-plow sizes; and garden tractors.

Plows

All sizes and types for use with horses or tractor. Moldboard types equipped with genuine John Deere steel or chilled bottoms. Disk plows; middlebreakers; listing plows. Disk Tillers in sizes for all tractors.



Harvesting Machinery

Combines and threshers. Grain binders, corn binders, rice binders, for

horses or tractor. Power-driven one-, and two-row corn pickers. Ensilage harvester. Kafir header. Beet lifters. Cotton harvesters. Grain shock sweeps.



Harrows

Single-, and double-action disk types for horses or tractor. Special disk harrows for orchard, vineyard, and cover crop work. Spike-tooth harrows; spring-tooth harrows, and spring-tooth weed destroyers. Stalk cutters, one-, and two-row.

Wagons, Trucks, Trailers

Furnished in different types and sizes to meet all farm needs.

Grain Elevators

Portable and stationary types for ear corn and small grains, portable type for small grains only.

Listers

One-, two-, and three-row for cotton, corn, and other crops. Tractor- and horse-drawn.

Manure Spreaders

Horse-drawn and power-driven. Also lime-spreading attachment.



John Deere
Gave to the World
the Steel Plow
in 1837



Hay Machinery

Enclosed-gear horse

mowers; tractor mower; power-driven mower; side-delivery rakes for horse and tractor; single- and double-cylinder and combination raker bar-cylinder loaders; over-shot stackers; sweep rakes; sulky rakes; motor presses; pull-power presses; windrow pick-up presses.

Potato Machinery

One-, and two-row planters, with or without fertilizer attachment. Two-row tractor-drive diggers. One-row diggers—ground, engine and tractor-drive. Hoes and hilling attachments. Fertilizer distributors; seed cutters.



Cultivators

One-, two-, four-, and six-row for surface-planted crops; one-, two-, three-, four-, and five-row for listed crops. Field and orchard cultivators with stiff or spring teeth for horses or tractor. Alfalfa cultivators. Special



two-, three-, and four-row beet and bean cultivators. Deep tilling cultivators. Rotary hoes. Rod weeder.

Engines

A line of enclosed engines that oil themselves, in a variety of sizes, up to 42-H. P. Pump jacks.

Corn Shellers

For hand and power use. Spring and cylinder types.

Planters

One-, two-, three-, and four-row sizes for corn, cotton, peanuts, beets, beans and other seeds. Walking and riding types. With or without fertilizer attachment. Special 2-, 3-, 4-, and 6-row planters for beets, beans, etc.

Grain Drills

With fluted force-feed or double-run feed. Choice of furrow openers. One-horse size to 24-foot size. Fertilizer-grain drills. Lister drills. Broadcast seeders, lime and fertilizer distributors. Grass seed drills, press drills, plow press drill, deep furrow drills, big box sowers and endgate seeders.